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APPLICATION NO.	FILI	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/639,077 08/11/2003		/11/2003	Joseph Hillman	SSI-08100	6943
28960	7590	04/07/2006	•	EXAM	IINER
HAVERST			KACKAR, RAM N		
162 NORTH WOLFE ROAD SUNNYVALE, CA 94086				ART UNIT	PAPER NUMBER
	.,			1763	

DATE MAILED: 04/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)		
Office Action Summary	1			
Office Action Summary	10/639,077	HILLMAN, JOSEPH		
omoo Modon ounnary	Examiner	Art Unit		
	Ram N. Kackar	1763		
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	ith the correspondence address		
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	B DATE OF THIS COMMUNION (1.136(a). In no event, however, may a riod will apply and will expire SIX (6) MON atute, cause the application to become AB	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on 23	3 January 2006.			
2a)⊠ This action is FINAL . 2b)□ T	his action is non-final.			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the				
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D). 11, 453 O.G. 213.		
Disposition of Claims				
4)⊠ Claim(s) <u>1-40</u> is/are pending in the application	ion.			
4a) Of the above claim(s) 13-32 is/are withdo	rawn from consideration.			
5) Claim(s) is/are allowed.				
6) Claim(s) <u>1-12 and 33-40</u> is/are rejected.				
7) Claim(s) is/are objected to.				
8) Claim(s) are subject to restriction and	d/or election requirement.			
Application Papers				
9) The specification is objected to by the Exami	iner.			
10) The drawing(s) filed on is/are: a) a	accepted or b) objected to	by the Examiner.		
Applicant may not request that any objection to the	he drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the corr	· · · · · · · · · · · · · · · · · · ·			
11) The oath or declaration is objected to by the	Examiner. Note the attached	d Office Action or form PTO-152.		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	•	3 119(a)-(d) or (f).		
1. Certified copies of the priority docume		malication No		
2. Certified copies of the priority docume3. Copies of the certified copies of the priority docume				
application from the International Bure	*	received in this National Stage		
* See the attached detailed Office action for a li	, , , , , , , , , , , , , , , , , , , ,	received.		
ttachment(s)	_			
ttachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) S)/Mail Date		

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-10 and 33-36 are rejected under 35 U.S.C. 102(b) as being anticipated by Fujikawa et al (JP 10335408).

Fujikawa et al disclose a process chamber for processing with super critical processing (Paragraph 1 in the English translation) and disclose an apparatus to close the chamber comprising first chamber housing with a cavity (Fig 1- Fig 4 and abstract) sized to contain semiconductor wafers, a second chamber housing and means to bring it into and out of contact with the first chamber housing and deforming means (7b) mounted on the second chamber housing between the surface of the housing and the moveable member.

3. Claims 1-10 and 33-36 are rejected under 35 U.S.C. 102(b) as being anticipated by Tseronis et al (US 6508259).

Tseronis et al disclose a process chamber for processing with super critical processing (Col 2 lines 41-50) and disclose an apparatus to close the chamber comprising first chamber housing with a cavity (Fig 4-123 and 1a) sized to contain semiconductor wafers, a second chamber housing (3a) and means to bring it into and out of contact with the first chamber

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housing and deforming means (5a) mounted on the second chamber housing between the surface of the housing and the moveable member.

4. Claims 33-36 are rejected under 35 U.S.C. 102(b) as being anticipated by Miyagi et al (US 5433784).

Miyagi et al disclose a process chamber and disclose an apparatus to close the chamber comprising first chamber housing with a cavity (Fig 1-1) sized to contain semiconductor wafers, a second chamber housing (18), means to bring it into and out of contact with the first chamber housing (13) with a rotary action (motor) and deforming means (17 and 18) mounted on the second chamber housing between the surface of the housing and the moveable member (13).

Regarding second chamber housing defining a second cavity as in claim 4 is a matter of shape since either housing could define a cavity to hold work pieces.

Regarding change in shape: It was held in re Dailey, 357 F.2d 669, 149 USPQ 47 (CCPA 1966) that the shape was a matter of choice which a person of ordinary skill in the art would have found obvious absent persuasive evidence that the particular shape was significant. (Also see MPEP 2144.04(d)).

5. Claims 33-36 are rejected under 35 U.S.C. 102(b) as being anticipated by LeBlanc III et al (US 5709785).

LeBlanc III et al disclose process chambers and disclose an apparatus to close the chambers comprising first chamber housing with a cavity (Fig 1-16) sized to contain substrates, second chamber housing (Fig 2A-2), means to bring it into and out of contact with the first chamber housing (22) with a rotary action (motor) (Fig 1-24) and deforming means (38a, 38b and 37c) mounted on the second chamber housing in grooves (37a, 37b and 37c) between the

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surface of the housing and the moveable member (22). LeBlanc III et al teach that these enable the collar 33 to move on its axis slightly (Col 4 line 60- Col 5 line 30).

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Toru Yasuda (JP 2000-106358) in view of Miyagi et al (US 5433784).

Yasuda et al disclose a process chamber for processing with super critical processing and disclose an apparatus to close the chamber comprising first chamber housing with a cavity (abstract and Fig 1) sized to contain semiconductor wafers, a second chamber housing (110) and means to bring it into and out of contact with the first chamber housing (111).

Yasuda et al do not disclose deforming means.

Miyagi et al disclose a process chamber and disclose an apparatus to close the chamber comprising first chamber housing with a cavity (Fig 1-1) sized to contain semiconductor wafers, a second chamber housing (18), means to bring it into and out of contact with the first chamber housing (13) with a rotary action (motor) and deforming means (17 and 18) mounted on the second chamber housing between the surface of the housing and the moveable member (13).

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Therefore it would have been obvious for one of ordinary skill in the art at the time of invention to use deforming means on apparatus of Yasuda to bring the closing part aligned and smooth with the open part.

Regarding second chamber housing defining a second cavity as in claim 4 is a matter of shape since either housing could define a cavity to hold work pieces.

Regarding change in shape: It was held in re Dailey, 357 F.2d 669, 149 USPQ 47 (CCPA 1966) that the shape was a matter of choice which a person of ordinary skill in the art would have found obvious absent persuasive evidence that the particular shape was significant. (Also see MPEP 2144.04(d)).

8. Claims 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Toru Yasuda (JP 2000-106358) in view of Miyagi et al (US 5433784) as applied to claims 1-10 and further in view of Masayasu Suzuki (JP 04103768) and Tanabe et al (US 5304422).

Miyagi et al disclose a process chamber and disclose an apparatus to close the chamber comprising first chamber housing with a cavity (Fig 1-1) sized to contain semiconductor wafers and a second chamber housing (18), means to bring it into and out of contact with the first chamber housing (13) with a rotary action (motor) and deforming means (17 and 18) mounted on the second chamber housing between the surface of the housing and the moveable member (13).

Toru Yasuda in view of Miyagi et al fails to disclose that the deforming material could be a polymer.

Masayasu Suzuki teaches that a polymer like polyimide resin is an elastic material (Abstract). Masayasu Suzuki uses this as a heat resistant elastic (deforming) member to hold

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substrates. Further Tanabe et al teach that polyimide resin has excellent mechanical and physical properties like low frictional force and low abrasion.

Therefore it would have been obvious for one of ordinary skill in the art at the time of invention to use polyimide resin material in place of springs for their excellent heat resistance and physical and mechanical properties.

9. Claims 37-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miyagi et al (US 5433784) in view of Masayasu Suzuki (JP 04103768) and Tanabe et al (US 5304422).

Miyagi et al disclose a process chamber and disclose an apparatus to close the chamber comprising first chamber housing with a cavity (Fig 1-1) sized to contain semiconductor wafers and a second chamber housing (18), means to bring it into and out of contact with the first chamber housing (13) with a rotary action (motor) and deforming means (17 and 18) mounted on the second chamber housing between the surface of the housing and the moveable member (13).

Miyagi et al fails to disclose that the deforming material could be a polymer.

Masayasu Suzuki teaches that a polymer like polyimide resin is an elastic material (Abstract). Masayasu Suzuki uses this as a heat resistant elastic (deforming) member to hold substrates. Further Tanabe et al teach that polyimide resin has excellent mechanical and physical properties like low frictional force and low abrasion.

Therefore it would have been obvious for one of ordinary skill in the art at the time of invention to use polyimide resin material in place of springs for their excellent heat resistance and physical and mechanical properties.

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10. Claims 37-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over LeBlanc III et al (US 5709785) in view of Masayasu Suzuki (JP 04103768) and Tanabe et al (US 5304422).

LeBlanc III et al disclose process chambers and disclose an apparatus to close the chambers comprising first chamber housing with a cavity (Fig 1-16) sized to contain substrates, second chamber housing (Fig 2A-2), means to bring it into and out of contact with the first chamber housing (22) with a rotary action (motor) (Fig 1-24) and deforming means (38a, 38b and 37c) mounted on the second chamber housing in grooves (37a, 37b and 37c) between the surface of the housing and the moveable member (22). LeBlanc III et al teach that these enable the collar 33 to move on its axis slightly (Col 4 line 60- Col 5 line 30).

LeBlanc III et al fails to disclose that the deforming material could be a polymer.

Masayasu Suzuki teaches that a polymer like polyimide resin is an elastic material (Abstract). Masayasu Suzuki uses this as a heat resistant elastic (deforming) member to hold substrates. Further Tanabe et al teach that polyimide resin has excellent mechanical and physical properties like low frictional force and low abrasion.

Therefore it would have been obvious for one of ordinary skill in the art at the time of invention to use polyimide resin material as the deforming material of LeBlanc III et al for their excellent heat resistance and physical and mechanical properties.

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Response to Arguments

Applicant's arguments filed 1/23/2006 have been fully considered but they are not persuasive. Applicants arguments about deforming means is not persuasive since by its very nature deforming means can deform in all directions.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ram N. Kackar whose telephone number is 571 272 1436. The examiner can normally be reached on M-F 8:00 A.M to 5:P.M.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Parviz Hassanzadeh can be reached on 571 272 1435. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ram Kackar

Examiner AU 1763